## WHAT IS CLAIMED IS:

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- A liquid container for a liquid ejection device comprising:
- a liquid supply port for supplying liquid to a liquid 5 ejection head,
  - a flexible member deformable in accordance with an amount of remaining liquid contained in the liquid container;
  - a vibration activating and detecting unit provided on a first surface of said liquid container, for emitting a vibration to said liquid; and
    - a rigid member provided on a second surface of said liquid container so as to be opposed to said vibration activating and detecting unit;
- wherein an amount of remaining liquid is detected based

  on a vibration characteristic of said vibration activating and
  detecting unit which depends on a distance between said vibration
  activating and detecting unit and said rigid member.
- A liquid container for a liquid ejection device according
   to claim 1, wherein said vibration activating and detecting unit includes a substrate capable of maintaining a constant shape irrespective of deformation of said liquid container.
- A liquid container for a liquid ejection device according
   to claim 1, wherein

a through-hole is formed in said liquid container at a location corresponding to a vibration region of said vibration activating and detecting unit, and said vibration activating and detecting unit is provided on a substrate having a recess into which liquid of said liquid container flows, and a vibration is emitted from said vibration activating and detecting unit to said liquid via said recess.

- 4. A liquid container for a liquid ejection device according to claim 1, wherein said rigid member is stuck to an outer or inner surface of said liquid container.
  - 5. A liquid container for a liquid ejection device according to claim 1, wherein a plurality of said vibration activating and detecting unit and a plurality of said rigid members are arranged in a direction in which a liquid level of liquid in said liquid container changes.
- 6. A liquid container for a liquid ejection device according to claim 2, wherein an adhesive layer with which said substrate is liquid tightly fastened to said liquid container, is formed on a front or back surface of said substrate.
- 7. A liquid container for a liquid ejection device according to claim 1, wherein said liquid container is housed in a hard

case, and said rigid member is formed with said hard case.

SUGHRUE (1)

- A liquid container in use for a liquid ejection device 8. according to claim 1, wherein said liquid container is housed in a hard case which has a raised portion in a predetermined region located apart from said liquid supply port in a region of said liquid container which serves as a bottom surface when said liquid container is set in the liquid ejection device.
- A liquid container in use for a liquid ejection device 10 9. according to claim 1, wherein conductive patterns are formed on a surface of said liquid container, which said conductive patterns are connected to said vibration activating and detecting unit.

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- A liquid container for a liquid ejection device comprising:
- a liquid supply port for supplying liquid to a liquid ejection head,
- a bag-like flexible member deformable in accordance with 20 an amount of remaining liquid contained therein;
  - a vibration activating unit provided on a first surface of said liquid container, for emitting a vibration to said liquid; and
- a vibration detecting unit provided on a second surface 25

of said liquid container so as to be opposed to said vibration activating unit;

wherein an amount of remaining liquid is detected based on a vibration characteristic of said vibration detecting unit.